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Dkt. 66833-A-PCT-US/JPW/BJA/ML

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Jingyue Ju

U.S. Serial No. : 10/521,206

Filing Date : November 9, 2006

For : MULTIPLEX GENOTYPING USING SOLID PHASE

CAPTURABLE DIDEOXYNUCLEOTIDES AND MASS

SPECTROMETRY

1185 Avenue of the Americas New York, New York 10036

May 2, 2007

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with his duty of disclosure under 37 C.F.R. §1.56, applicant directs the Examiner's attention to the following items which are listed on the attached Form PTO-1449 (Exhibit A). Items 1-48 are U.S. Patents or U.S. Patent Application Publications. As permitted by 37 C.F.R. 1.98(a)(2)(ii), no copies of these items are included herewith. In addition, as permitted by 37 C.F.R. 1.98(d), copies of references 49-54, and 62-114 are not included, as these references were previously submitted to, or cited by the Office in connection with the following application which is relied on for an earlier effective filing date under 35 U.S.C. 120: U.S. Serial No. 10/194,882, filed July 12, 2002. Copies of references 55-61, and 115-146 are attached hereto as Exhibits 1-39, respectively.

- 1. U.S. Patent No. 4,824,775, issued April 25, 1989, Dattagupta;
- 2. U.S. Patent No. 5,118,605, issued June 2, 1992, Urdea;

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- 3. U.S. Patent No. 5,174,962, issued March 3, 1999, Ju;
- 4. U.S. Patent No. 5,302,509, issued December 4, 1994, Cheeseman;
- 5. U.S. Patent No. 5,599,675, issued February 4, 1997, Brenner;
- 6. U.S. Patent No. 5,654,419, issued August 5, 1997, Mathies;
- 7. U.S. Patent No. 5,728,528, issued March 17, 1998, Mathies;
- 8. U.S. Patent No. 5,763,594, issued June 9, 1998, Hiatt et al.;
- 9. U.S. Patent No. 5,770,367, issued June 23, 1998, Southern;
- 10. U.S. Patent No. 5,789,167, issued August 4, 1998, Konrad;
- 11. U.S. Patent No. 5,804,386, issued September 8, 1998, Ju;
- 12. U.S. Patent No. 5,808,045, issued September 15, 1998, Hiatt et al.;
- 13. U.S. Patent No. 5,814,454, issued October 29, 1998, Ju;
- 14. U.S. Patent No. 5,834,203, issued November 10, 1998, Katzir;
- 15. U.S. Patent No. 5,849,542, issued December 15, 1998, Reeve et al.;
- 16. U.S. Patent No. 5,853,992, issued December 29, 1998, Glazer;

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- 17. U.S. Patent No. 5,869,255, issued February 9, 1999, Mathies;
- 18. U.S. Patent No. 5,872,244, issued February 16, 1999, Hiatt et al.
- 19. U.S. Patent No. 5,876,936, issued December 29, 1992, Ju;
- 20. U.S. Patent No. 5,885,775, issued March 23, 1999, Haff et al.;
- 21. U.S. Patent No. 5,945,283, issued August 31, 1999, Kwok;
- 22. U.S. Patent No. 5,952,180, issued September 14, 1999, Ju;
- 23. U.S. Patent No. 6,028,190, issued February 28, 2000, Mathies;
- 24. U.S. Patent No. 6,046,005, issued April 4, 2000, Ju;
- 25. U.S. Patent No. 6,074,823, issued June 13, 2000, Hubert;
- 26. U.S. Patent No. 6,136,543, issued October 24, 2000, Anazawa et al.;
- 27. U.S. Patent No. 6,197,557, issued March 6, 2001, Markarov et al.;
- 28. U.S. Patent No. 6,214,987, issued April 10, 2001, Hiatt et al.;
- 29. U.S. Patent No. 6,218,118, issued April 17, 2001, Sampson;

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- 30. U.S. Patent No. 6,232,465, issued May 15, 2001, Hiatt et al.;
- 31. U.S. Patent No. 6,312,893, issued November 6, 2001, Van Ness et al.;
- 32. U.S. Patent No. 6,316,230, issued November 13, 2001, Egholm;
- 33. U.S. Patent No. 6,361,940 issued March 26, 2002, Van Ness et al.;
- 34. U.S. Patent No. 6,613,508, issued September 2, 2003, Ness et al.;
- 35. U.S. Patent No. 6,627,748, issued September 30, 2003, Ju et al.;
- 36. U.S. Patent No. 6,664,079 issued December 16, 2003, Ju et al.;
- 37. U.S. Patent No. 6,664,399, issued December 16, 1993, Sabesan;
- 38. U.S. Patent No. 7,074,597, issued July 11, 2006, Ju;
- 39. U.S. Application Publication No. 2002/0168642 A1, published November 14, 2002 (Drukier);
- 40. U.S. Application Publication No. 2003/0008285 Al, published January 9, 2003 (Fischer);
- 41. U.S. Application Publication No. 2003/0022225 Al, published

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- 42. U.S. Application Publication No. 2003/0027140, published February 6, 2003 (Ju et al.);
- 43. U.S. Application Publication No. 2003/0044871, published March 6, 2003 (Cutsforth et al.);
- 44. U.S. Application Publication No. 2003/0099972, published May 29, 2003 (Olejnik et al.);
- 45. U.S. Application Publication No. 2004/0185466, published September 23, 2004 (Ju et al.);
- 46. U.S. Application Publication No. 2005/0032081, published February 10, 2005 (Ju et al.);
- 47. U.S. Application Publication No. 2006/0057565, published March 16, 2006 (Ju et al.);
- 48. U.S. Application Publication No. 2006/0003352, published January 5, 2006 (Lipkin et al.);
- 49. PCT International Publication No. WO 91/06678, May 16, 1991;
- 50. PCT International Publication No. WO 00/53805, September 14, 2000;
- 51. PCT International Publication No. WO 01/92284, December 6, 2001;

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- 52. PCT International Publication No. WO 02/079519 A1, published October 10, 2002;
- 53. PCT International Publication No. WO 02/22883 A1, published March 21, 2002;
- 54. PCT International Publication No. WO 02/29003, published April 11, 2002;
- 55. PCT International Publication No. WO 01/27625 A1, published April 19, 2001 (Exhibit 1);
- 56. PCT International Publication No. WO 04/007773, published January 22, 2004 (Exhibit 2);
- 57. PCT International Publication No. WO 04/055160, published January 22, 2004 (Exhibit 3);
- 58. PCT International Publication No. WO 05/084367, published September 15, 2005 (Exhibit 4);
- 59. PCT International Publication No. WO 06/073436, published July 13, 2006 (Exhibit 5);
- 60. PCT International Publication No. WO 07/002204, published January 4, 2007 (Exhibit 6);
- 61. European Patent Application No. EP 0992511 A, Rapigene Inc., published April 12, 2000 (Exhibit 7);

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- 122. Wendy S Jen, John J.M. Wiener, and David W.C. MacMillan, (2000) "New Strategies for Organic Catalysis: The First Enantioselective Organocatalytic 1,3-Dipolar Cycloaddition" J. Am. Chem. Soc., 122, 9874-9875 (Exhibit 15);
- 123. Supplementary European Search Report issued February 16, 2004 in connection with European Patent Application No. 01 97 7533 (Exhibit 16);
- 124. Supplementary European Search Report issued February 9, 2007 in connection with European Patent Application No. 03 76 4568.6 (Exhibit 17);

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- 125. Supplementary European Search Report issued May 25, 2005 in connection with European Patent Application No. 02 72 8606.1 (Exhibit 18);
- 126. Supplementary European Search Report issued June 7, 2005 in connection with European Patent Application No. 01 96 8905 (Exhibit 19);
- 127. International Preliminary Examination Report issued on 3/18/05 in connection with PCT/US03/21818 (Exhibit 20);
- 128. International Preliminary Examination Report issued on 4/3/03 in connection with PCT/US01/31243 (Exhibit 21);
- 129. International Preliminary Examination Report issued on 2/25/03 in connection with PCT/US01/28967 (Exhibit 22);
- 130. International Preliminary Examination Report issued on 3/17/03 in connection with PCT/US02/09752 (Exhibit 23);
- 131. International Preliminary Report on Patentability issued on 9/5/06 in connection with PCT/US05/006960 (Exhibit 24);
- 132. International Search Report issued 5/13/02 in connection with PCT/US01/31243 (Exhibit 25);
- 133. International Search Report issued 1/23/02 in connection with PCT/US01/28967 (Exhibit 26);

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- 134. International Search Report issued 9/18/02 in connection with PCT/US02/09752 (Exhibit 27);
- 135. International Search Report issued 9/26/03 in connection with PCT/US03/21818 (Exhibit 28);
- 136. International Search Report issued 6/8/04 in connection with PCT/US03/39354 (Exhibit 29);
- 137. International Search Report issued 11/4/05 in connection with PCT/US05/06960 (Exhibit 30);
- 138. International Search Report issued 12/15/06 in connection with PCT/US05/13883 (Exhibit 31);
- 139. Written Opinion of the International Searching Authority issued 10/27/05 in connection with PCT/US05/06960 (Exhibit 32);
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- 141. Elango, N. et al. (1983) "Amino Acid Sequence of Human Respiratory Syncytial Virus Nucleocapsid Protein" Nucleic Acids Research, 11(17):5941-5951 (Exhibit 34);
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- 145. Kokoris, M. et al. (2000) "High-throughput SNP Genotyping With the Masscode System", Molecular Diagnosis, 5(4):329-340 (Exhibit 38); and
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This Information Disclosure Statement is being submitted under 37 C.F.R. §1.97(b). Applicant requests that the Examiner review the items listed and make them of record in the subject application.

If a telephone interview would be of assistance in advancing prosecution of the subject application, applicant's undersigned attorney invites the Examiner to telephone him at the number provided below.

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No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 03-3125.

Respectfully submitted,

hereby certify that this correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:

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White No. 28,678

Registration No. 28,678 Attorney for Applicant Cooper & Dunham LLP 1185 Avenue of the Americas New York, New York 10036

(212) 278-0400

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INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)

Application Number	10/521,206
Filing Date	November 9, 2006
First Named Inventor	Jingyue Ju
Art Unit	
Examiner Name	
Attorney Docket No.	66833-A-PCT- US/JPW/BJA/ML

Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		4,824,775	04-25-1989	Dattagupta
		5,118,605	06-02-1992	Urdea
		5,174,962	12-29-1992	Brennan
		5,302,509	04-12-1994	Cheeseman
		5,599,675	02-04-1997	Brenner
		5,654,419	08-5-1997	Mathies
		5,728,528	03-17-1998	Mathies
		5,763,594	06-09-1998	Hiatt ·
		5,770,367	06-23-1998	Southern
		5,789,167	08-04-1998	Konrad
	. ' :	5,804,386	09-08-1998	Ju
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		5,814,454	10-29-1998	Ju
		5,843,203	11-10-1998	Katzir
		5,849,542	12-15-1998	Reeve et al.
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		5,885,775	03-23-1999	Haff et al
		5,945,283	08-31-1999	Kwok
		5,952,180	09-14-1999	Ju
		6,028,190	02-22-2000	Mathies
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		6,136,543	10-24-2000	Anazawa et al.
		6,197,557	03-6-2001	Markarov et al.

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds of Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

DATE CONSIDERED

Applicants: Jingyue Ju Serial No.: 10/521,206 Filed: November 9, 2006

Exhibit A

Form PTO-1449 10/521,206 Application Number **U.S. Department of Commerce** November 9, Patent and Trademark Office Filing Date 2006 First Named Inventor Jingyue Ju INFORMATION DISCLOSURE STATEMENT Art Unit (Use several sheets if necessary) Examiner Name 66833-A-PCT-Attorney Docket No. US/JPW/BJA/ML

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Application Number Form PTO-1449 **U.S. Department of Commerce** 10/521,206 November 9, **Patent and Trademark Office** Filing Date 2006 First Named Inventor Jingyue Ju INFORMATION DISCLOSURE STATEMENT Art Unit (Use several sheets if necessary) Examiner Name 66833-A-PCT-Attorney Docket No. US/JPW/BJA/ML NON PATENT LITERATURE DOCUMENTS T² Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item Examiner Cite Initials^{*} No. (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. International Preliminary Examination Report issued on 4/3/03 in connection with PCT/US01/31243 International Preliminary Examination Report issued on 2/25/03 in connection with PCT/US01/28967 International Preliminary Examination Report issued on 3/17/03 in connection with PCT/US02/09752 International Preliminary Report on Patentability issued on 9/5/06 in connection with PCT/US05/006960 International Search Report issued 5/13/02 in connection. with PCT/US01/31243 International Search Report issued 1/23/02 in connection with PCT/US01/28967 International Search Report issued 9/18/02 in connection with PCT/US02/09752 International Search Report issued 9/26/03 in connection with PCT/US03/21818 International Search Report issued 6/8/04 in connection with PCT/US03/39354 International Search Report issued 11/4/05 in connection with PCT/US05/06960 International Search Report issued 12/15/06 in connection with PCT/US05/13883 Written Opinion of the International Searching Authority issued 10/27/05 in connection with PCT/US05/06960 Written Opinion of the International Searching Authority issued 12/15/06 in connection with PCT/US05/13883

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